

**2.4.1 Carbon Dioxide Emissions for U.S. Residential Buildings, by Year (million metric tons) (1)**

	Residential			U.S.			Res.% of Total U.S.	Res.% of Total Global
	Site <u>Fossil</u>	Electricity	Total	Growth Rate 2008-Year	Total	Growth Rate 2008-Year		
1980	385	525	909	-	4723	-	19%	4.9%
1981	361	518	878	-	4601	-	19%	4.8%
1982	359	511	870	-	4357	-	20%	4.8%
1983	340	525	865	-	4332	-	20%	4.7%
1984	349	535	883	-	4561	-	19%	4.6%
1985	351	549	901	-	4559	-	20%	4.6%
1986	343	551	894	-	4564	-	20%	4.5%
1987	346	574	920	-	4714	-	20%	4.5%
1988	367	603	970	-	4939	-	20%	4.6%
1989	374	606	980	-	4983	-	20%	4.6%
1990	340	618	959	-	5020	-	19%	4.4%
1991	348	627	975	-	4975	-	20%	4.5%
1992	358	618	976	-	5069	-	19%	4.6%
1993	373	663	1036	-	5172	-	20%	4.8%
1994	365	664	1029	-	5251	-	20%	4.7%
1995	362	674	1035	-	5302	-	20%	4.7%
1996	390	705	1095	-	5488	-	20%	4.8%
1997	371	715	1086	-	5562	-	20%	4.7%
1998	339	754	1093	-	5605	-	20%	4.8%
1999	360	757	1117	-	5665	-	20%	4.8%
2000	380	799	1180	-	5850	-	20%	5.0%
2001	368	800	1167	-	5745	-	20%	4.9%
2002	369	829	1198	-	5790	-	21%	4.9%
2003	385	839	1225	-	5839	-	21%	4.7%
2004	373	849	1222	-	5952	-	21%	4.4%
2005	365	890	1255	-	5974	-	21%	4.4%
2006	324	863	1187	-	5894	-	20%	4.1%
2007	344	891	1235	-	5986	-	21%	4.1%
<b>2008</b>	<b>349</b>	<b>872</b>	<b>1220</b>	<b>-</b>	<b>(2)</b>	<b>(3)</b>	<b>21%</b>	<b>4.0%</b>
2009	339	820	1159	-0.8%	5425	-2.7%	21%	3.8%
2010	339	892	1231	0.9%	5639	-1.1%	22%	4.0%
2011	339	812	1151	-0.6%	5591	-1.0%	21%	3.7%
2012	337	799	1137	-0.7%	5622	-0.8%	20%	3.7%
2013	337	772	1109	-1.0%	5656	-0.6%	20%	3.6%
2014	336	766	1102	-0.9%	5657	-0.5%	19%	3.5%
2015	335	757	1092	-0.9%	5679	-0.4%	19%	3.5%
2016	335	761	1096	-0.8%	5703	-0.3%	19%	3.4%
2017	333	760	1093	-0.7%	5712	-0.3%	19%	3.4%
2018	332	764	1096	-0.7%	5727	-0.2%	19%	3.3%
2019	332	771	1102	-0.6%	5746	-0.2%	19%	3.3%
2020	332	778	1110	-0.5%	5774	-0.1%	19%	3.3%
2021	330	787	1117	-0.4%	5814	-0.1%	19%	3.3%
2022	330	799	1128	-0.3%	5835	-0.1%	19%	3.2%
2023	329	810	1139	-0.2%	5863	0.0%	19%	3.2%
2024	329	825	1153	-0.2%	5898	0.0%	20%	3.2%
2025	327	833	1161	-0.1%	5931	0.0%	20%	3.2%
2026	327	842	1169	-0.1%	5963	0.1%	20%	3.2%
2027	326	852	1178	0.0%	5993	0.1%	20%	3.1%
2028	326	862	1188	0.0%	6031	0.1%	20%	3.1%
2029	324	869	1194	0.0%	6063	0.1%	20%	3.1%
2030	324	878	1202	0.1%	6110	0.2%	20%	3.1%
2031	323	886	1209	0.1%	6153	0.2%	20%	3.0%
2032	322	895	1218	0.1%	6199	0.2%	20%	3.0%
2033	320	901	1221	0.1%	6235	0.2%	20%	3.0%
2034	319	907	1227	0.1%	6273	0.2%	20%	2.9%
2035	319	916	1234	0.1%	6315	0.2%	20%	2.9%

Note(s): 1) Excludes emissions of buildings-related energy consumption in the industrial sector. Emissions assume complete combustion from energy consumption and exclude energy production activities such as gas flaring, coal mining, and cement production. 2) Carbon emissions calculated from EIA, Assumptions to the AEO 2008 and differs from EIA, AEO 2011 Early Release, Table A18. Residential buildings sector total varies by 0.2% for year 2008 from EIA, AEO 2011 Early Release. 3) U.S. buildings emissions approximately equal the combined carbon emissions of Japan, France, and the United Kingdom.

Source(s): EIA, Emissions of Greenhouse Gases in the U.S. 2008, Dec. 2009, Tables 7-10 for 1980-2007 greenhouse gas emissions; EIA, Assumptions to the Annual Energy Outlook 2010, May 2010, Table 2, p. 9 for carbon coefficients; EIA, AEO 2011 Early Release, Dec. 2010, Table A2, p. 3-5 for 2008-2030 energy consumption and Table A18, p. 36 for 2008-2035 emissions; EIA, International Energy Outlook 2010, May 2009, Table A10, p. 93 for 2008-2035 global emissions; and EIA, International Energy Annual 2007, July 2008, Table H1, [www.eia.doe.gov](http://www.eia.doe.gov) for 1980-2000 global emission.